Lab Services

Mechanical, Electrical, and Environmental Testing for Connectors and Cables

From planning to final report, we support customers with the knowledge, know-how and equipment to execute thorough test programs. We work with military and commercial specifications as well as custom test requirements for qualification, screening, development, or failure analysis purposes.

Whether you have purchased one of our products or simply want us to test your product(s), we have the facilities and experience to meet your needs.

X-Ray/CT

Our 4,000 ft² test lab features an x-ray/CT scan machine capable of revealing microscopic discrepancies. It’s precision also makes it a powerful tool for reverse engineering and dimensional inspection.
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Test Applications
AirBorn employs 50+ degreed engineers in-house to assist in design and product development; expertly guiding from inception through mass production. AirBorn utilizes an A2LA accredited* laboratory to test against the highest standards imaginable to ensure our products stand up to the rigors of space exploration, military missions, commercial air flights, and hard-driving industrial applications.

From extreme temperature fluctuations to vibration & shock tests, we design unmatched quality into our interconnects and cable assemblies to withstand intense battlefield, deep-sea, work site, or space applications.

• Contact Engagement & Separation Forces
• Contact Retention/Wire Retention
• Dielectric Withstanding Voltage (Sea Level & Altitude)
• Durability
• Insert Retention
• Insulation Resistance
• Low Signal Level Contact Resistance

• Mating & Unmating Force
• Resistance to Soldering Heat
• Shock
• Solderability
• Temperature Cycling
• Vibration
• X-Ray/CT imaging & inspection

*Not all testing listed above is included in our A2LA Scope of Accreditation. Please consult A2LA Certificate #4132.01 for a list of accredited tests.

Signal Integrity Analysis & Design Optimization

• Mixed mode s-parameters (Insertion Loss, Return Loss)
• Time Domain Reflectometry
• Bit error rate and data eye analysis
• 3D field modeling and simulation

AirBorn supports screening and qualification tests described in NASA EEE-INST-002, EIA-364, and various connector specifications such as MIL-DTL-32139, MIL-DTL-83513, and MIL-DTL-55302.